Single Integrated Air Picture

INDUSTRY DAY

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"Interoperability is a mandate for the Joint force of 2020 –
especially in terms of communications, common logistics
items and ***information sharing****."*

Joint Vision 2020

"the bottom line . . . is our weapons and weapon systems must be designed with joint and coalition interoperability in mind."

CJCS Gen. Richard Myers

Background

What is a SIAP?

SIAP Definition (from TAMD CRD): **SIAP is the product of fused, common, continual, unambiguous tracks of airborne objects of interest in the surveillance area.**

- **JFCOM has provided amplification stating: "For every airborne object there is one and only one surveillance track corresponding to that object."**

SIAP SE Mission:

"To provide the systems engineering expertise for producing the most cost effective and efficient means of producing a SIAP…"

Background

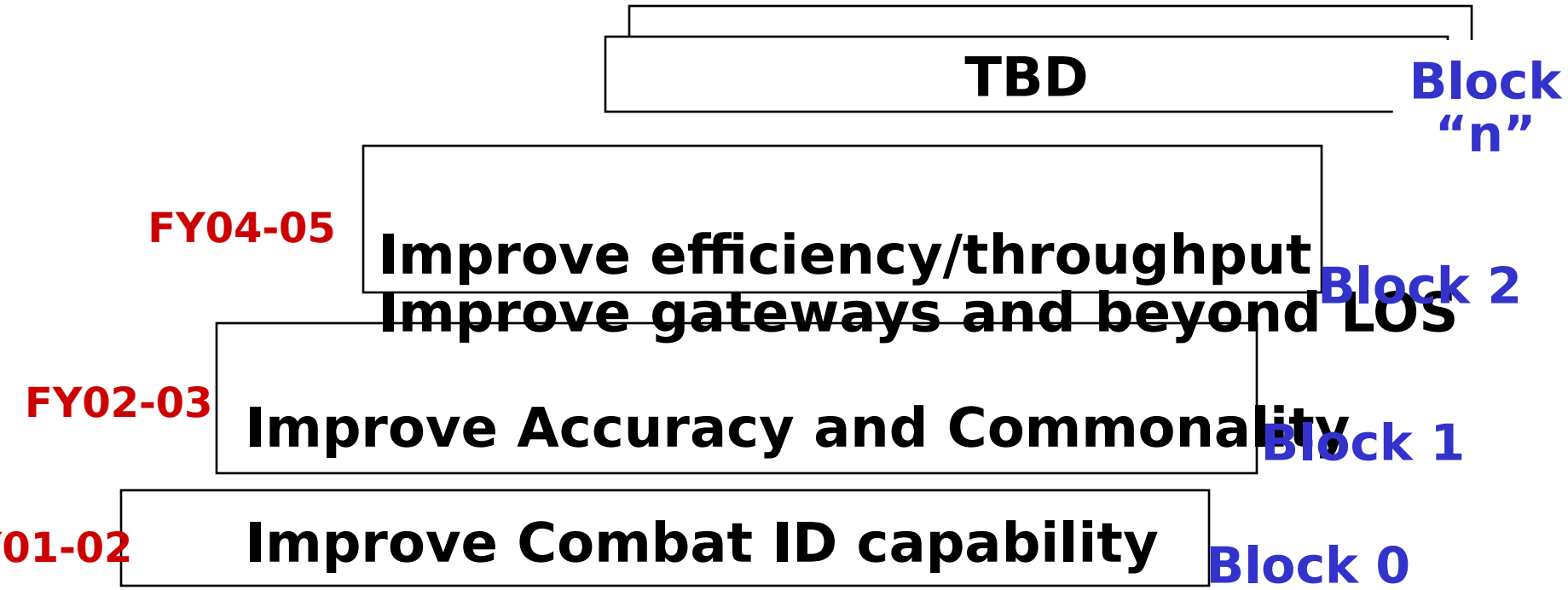
- **SIAP is chartered by:**
  - **JROC, USD (AT&L) and DoD CIO**
  - **Interested Parties include: OASD C3I, JTAMD EXECOM, JTAMDO (strategic Partner), USD (Interoperability: Dr. Garber) and others**
- **SIAP participating members:**
  - **USA, USN, USAF, USMC and MDA**
- **SIAP decomposed into 3 levels:**
  - **Tier 1 (Joint Systems Engineering): All 4 Services and MDA participate in an exploration of and find solutions to known (deadly sins) interoperability problems.**
  - **Tier 2 (Service Systems Engineering): Each Service first investigates the Service portion of the Joint Engineering problem and provides answers, then investigate and provide implementation guidance to the Service systems implementing the Joint solution.**
  - **Tier 3 (Implementation): Implement solution.**

How do we go about it?

Reduced risk of fratricide

Open up battle space to employ our weapons

Capability to counter emerging threats



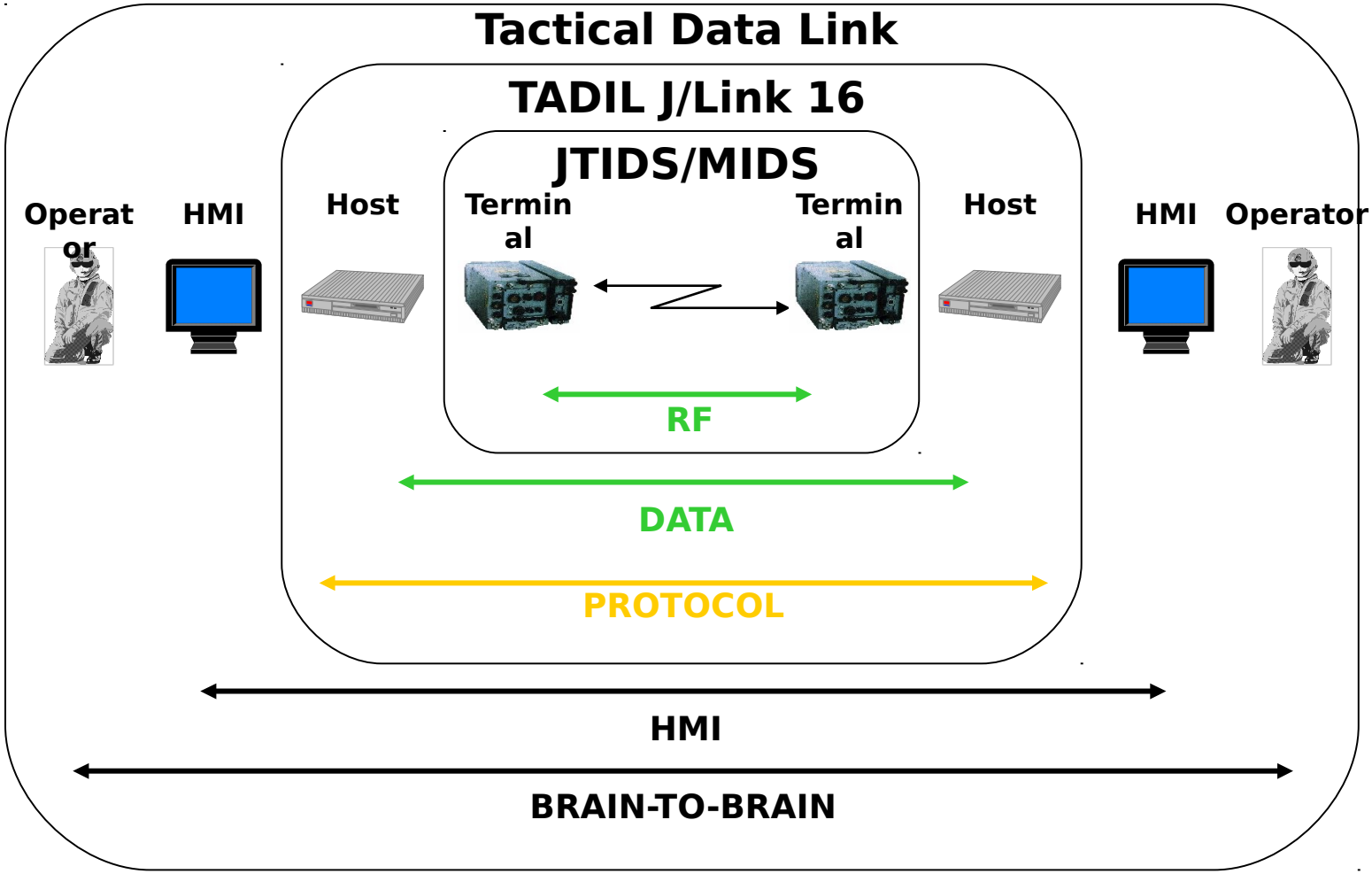
Reduce Dual Tracks/Operator Confusion

Stepping stones to increased joint warfighting capability

End Game

- **What we want is the seamless integration of USMC systems into the Joint architecture.**
  - **Requires implementation of SIAP recommended solutions in a timely manner**
  - **Upfront effort in engineering the solution**
    - **Cooperation from Primes for Joint engineering and Service engineering**
- **Systems must talk end – to – end in order to realize interoperability**
- **USMC represents one piece of the overall puzzle**
  - **USMC puzzle piece must be continuous (interoperable amongst ourselves)**
  - **USMC puzzle piece must be clearly defined at the Joint and Coalition boundary (interoperable on the Joint and coalition level)**

End Game



Legend: Operational IO Technical IO Procedural IO

Summary

- **SIAP is a Joint Engineering effort**
  - **All 4 Services and MDA involved**
  - **First and most mature of Interoperability efforts**
  - **Collaborative effort**
- **SIAP has keen interest at the OSD and Joint level**
  - **Chartered by JROC, USD(AT&L) and DoD CIO**
- **Method by which USMC will ensure interoperability for our C2 systems**